

### 280.1 DESCRIPTION

Process In Place Surfacing shall consist of processing and blending the asphalt mix and granular material, placing, watering, shaping and compacting the material to the typical section.

### 280.2 MATERIALS

The asphalt mix and granular material shall be processed to provide a nominal 1 inch (25 mm) maximum size. A tolerance of 5 percent in material retained on a 1 inch (25 mm) sieve will be permitted, provided all material passes a 1-1/2 inch (37.5 mm) sieve.

### 280.3 CONSTRUCTION REQUIREMENTS

#### A. Equipment:

1. **Recycling Equipment:** The equipment shall be self propelled and capable of processing and blending the material to the depth specified in the plans.
2. **Rollers:** Pneumatic tired rollers shall have an effective roller weight of at least 250 pounds per inch (4.5 kilograms per millimeter) of roller width or satisfactory vibratory compaction equipment. Tires shall be uniformly inflated so their air pressures will not vary by more than 5 psi. Rollers shall be operated with tire pressures and wheel loads within the manufacturer's recommended range for the size and ply of the tire being used.

Steel rollers shall furnish a minimum rolling weight of 275 pounds per inch (4.9 kilograms per millimeter) of rolling width.

- B. Processing and Laydown:** Asphalt concrete mix and granular material shall be processed in place so that a uniform blend is obtained. The material shall be handled to ensure that salvaged material is not lost down the inslope.

The processed material shall be placed in a minimum of two lifts. The maximum lift thickness shall not exceed 4 inches (100 mm).

Contractors attention is drawn to the varying depths of in place asphalt concrete shown in the plans. The Contractor will be responsible for interpreting the depths and including all costs to process the required depth of existing pavement and granular material.

Each layer shall be compacted to the required density before the next lift is placed and shall be rolled until a uniform, stable surface is obtained.

The final rolling of the top surface of the granular materials shall embed as many loose stones as possible. The finished surface shall be smooth and free from waves and the Contractor shall finish the surfacing materials to within  $\pm 0.5$  percent of the typical section cross slope.

The quarter crown within any 12 foot (3.6 m) transverse length (or actual lane width paved with a single paver pass) shall not exceed 0.04 feet (13 mm) when measured with a straight edge, stringline, or other suitable equipment.

The Contractor shall conduct his operations in such a way that both lanes will be brought up even at the end of each day.

**C. Compaction and Density Requirements:** Compaction and density requirements shall be a minimum of 95 percent of the target density. The target density shall be established by SD219 and compacted under the following conditions:

1. Material shall have approximately 4 percent moisture uniformly blended throughout the depth of material. The percent moisture may be adjusted by the Engineer.
2. A minimum of one test strip for each lift placed shall be completed to determine the target density and optimum rolling sequence. The test strips will remain in place as part of the completed work.
3. The depth of the test strip lift shall be representative of the project.
4. When there is a significant change in mix proportions, weather conditions or other controlling factors the Engineer may require construction of another test strip(s) to check target density.

#### 280.4 METHOD OF MEASUREMENT

Process In Place Surfacing material will be measured to the nearest square yard (square meter). Plans quantity will be the basis of payment, unless changes are ordered by the Engineer.

Water and materials which are paid under separate items will not be measured under this item.

#### 280.5 BASIS OF PAYMENT

Process In Place Surfacing material will be paid for at the contract price per square yard (square meter) inclusive of all costs for processing, blending, placing, shaping, compacting, equipment, test strips, labor and incidentals necessary to satisfactorily complete the work. Plans quantity will be the basis of payment, unless changes are ordered by the Engineer.